



PREDICT

Installation

Version 4.2.1 for Windows

 **SOFTWARE AG**



This document applies to Predict Version 4.2.1 and to all subsequent releases. Specifications contained herein are subject to change and these changes will be reported in subsequent release notes or new editions.

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Predict Installation on Windows

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|  | Installation Prerequisites | Provides an overview of the product requirements and the basic installation steps. |
|  | Setup and Installation of Predict on Windows | Describes the steps involved to install and set up Predict. |
|  | Preparing your Natural/Adabas Environment for Working with Predict | Provides an overview of the parameters that must be set before you can start working with Predict. |
|  | Applying Service Packs or Subsequent System Maintenance Levels | Describes the steps involved when you upgrade an existing Predict environment. |

Installation Prerequisites

Before installing Predict, ensure that your PC fulfills the following requirements.

Administrator Status

The person performing the installation must have administrator status.

Hardware

| | |
|------------------------|---|
| Processor | 500 MHz INTEL Pentium 3 processor or higher. |
| Hard Disk Space | Approximately 150 MB (NTFS recommended). |
| RAM | 128 MB or higher. |
| Display | SVGA graphics adaptor and SVGA monitor. |
| Resolution | 800 x 600 or higher with 256 colors or higher. 16-bit true color mode is recommended. |
| Mouse | Windows-compatible mouse. |
| CD-ROM Drive | A CD-ROM drive to install the software. |

| | |
|-------------------------|-------------------|
| FDIC | |
| ASSO | 1188 blocks (2kB) |
| DATA | 1000 blocks (4kB) |
| COORDINATOR FDIC | |
| ASSO | 2572 blocks (2kB) |
| DATA | 1125 blocks (4kB) |

Note:

WORK must be at least 20 MB.

Software

- Operating System
- Product Requirements
- Other Related Software AG Products
- Accessing Predict Remotely
- Accessing the Server (Action on the Client Side)

Operating System

- Microsoft Windows NT 4.0 SP6 or higher
- Windows 2000 Professional SP1 or higher
- Microsoft Windows 2000 Server, Advanced Server

Product Requirements

Natural 5.1.1 for Windows Patch Level 4 or above

The following Natural parameter settings are recommended during the installation of Predict 4.2.1:

- MADIO=0
- MAXCL=0
- The Natural Buffer Pool must be available.

Adabas C 3.1 for Windows or above

The following Adabas parameters should be set during the installation of Predict 4.2.1:

- LAB=200000 or greater
- LBP=4000000 or greater
- LP=200 or greater
- LS=200000 or greater
- LWP=1000000 or greater
- MGC=50 or greater
- NC=200 or greater
- NH=10000 or greater
- NISNHQ=1000 or greater
- NT=2 or greater
- NU=200 or greater
- OPTIONS=(TRUNCATION)

Other Related Software AG Products

These products are not necessary in order to use Predict 4.2, but if they are installed, the following prerequisites must be met.

Natural Security

Natural Security corresponding to your Natural version.

Entire Access

Entire Access is required if you need to access any of the supported SQL database systems. Access to SQL databases is required for Incorporation functions. You do not need access to SQL databases to generate CREATE statements. A list of supported SQL databases is given in the Entire Access Release Notes.

Accessing Predict Remotely

Predict can be accessed remotely. For example, a Predict client on Windows can access a Predict server on Windows NT. For this purpose, you need to set up Natural RPC client/server communication.

How to configure an RPC server for different platforms is described in the Natural RPC documentation.

Accessing the Server

Action on the Client Side

To access the server, you need an Entire Net-Work connection to the server's Entire Net-Work. Please ask your data center for the appropriate settings. Before starting Natural, define the dictionary server using the Natural Natural Configuration Utility with the following steps:

1. Define a logical dictionary server. For this you need to know the following:
 - The server name of the dictionary server (DDM server) that has been defined on the server system.
 - The node name on which this server is running.Ask your data center for these names.
The logical dictionary server is defined in the menu Global CONFIG File > Dictionary Server Assignments > Dictionary Servers.
2. Fill in the server name and node names for DDM, Free rule and Automatic rule.

After having checked the Installation Prerequisites, you can proceed with the Setup and Installation of Predict on Windows.

Setup and Installation of Predict on Windows

This section describes step-by-step how to set up and install Predict under Windows. This section covers the following major topics:

- Installation Procedure Overview
 - Installation Overview
 - Steps for Both Installation Methods
 - First-Time Installation
 - Upgrade Installation - Inplace Conversion Method
-

Installation Procedure Overview

A setup program is provided for installing Predict. This program decompresses the files contained on the installation CD-ROM, copies them to hard disk, and creates a Predict program folder (optionally). The setup program guides you step by step through the installation procedure with explanatory text available with all dialog boxes displayed.

The installation procedure can be used either for first-time installations of Predict or for upgrade installations (with Inplace Conversion).

The installation process is divided into the following two phases:

- The configuration phase (steps 1 to 8), in which you are prompted to enter certain installation values. Other values are automatically included by the setup program. After confirmation of all parameters, the setup program copies all installation files from CD-ROM to hard disk. During this phase you may cancel the setup procedure at any time or go back to previous dialogs. No changes to your system will be made during this phase.
- The installation procedure (all further steps), in which the setup program installs Predict components according to the values you enter in the menu displayed.

Once Predict Version 4.2 is installed, you can also use the installation process to update your Predict environment with service packs provided by Software AG. This option is described in the section Applying Service Packs or Subsequent System Maintenance Levels.

Installation Overview

The steps to be taken depend on which installation method you choose.

- Steps for Both Installation Methods
The steps described in this subsection are required for both methods of installing Predict. Perform these steps then continue with first-time installation or upgrade installation (inplace conversion) method.
- First-Time Installation
Use this method if you are installing Predict for the first time or in an environment where Predict is not yet installed.
- Upgrade Installation (Inplace Conversion from a Previous Version)
If you have already used Predict Version 4.1 and a Predict system file (FDIC) containing data in the format of that version exists, the data must be converted to Predict 4.2 format. The Predict data is converted directly on that file to Predict 4.2 format.

Steps for Both Installation Methods

The following steps are required for both methods of installing Predict. Perform these steps then continue with first-time installation or inplace conversion method.

To run the setup program

1. Close all active Windows applications
2. Start the Adabas environment where your system files are to be taken to or from.
See Installation Prerequisites for further information on the required Adabas environment.
3. From the Start menu, choose Run.
4. In the command line, enter:

x:\Setup.exe

where "x" is the letter of the disk drive containing the Predict CD-ROM.

Note:

If the operating system AUTOSTART feature is enabled, the Predict installation will automatically be started at the time the Predict CD-ROM is loaded.

The installation will then be started.

See the following list for an overview of the necessary steps:

- Step 1: Start the Installation Process
- Step 2: Accept the License Agreement
- Step 3: Specify the Location of the License File
- Step 4: Confirm System Requirements
- Step 5: Enter Customer Information
- Step 6: Select the Destination Folder
- Step 7: Select a Program Folder
- Step 8: Review Settings Before Copying Files
- Step 9: Specify Your Natural Version
- Step 10: Specify Your Adabas Version
- Step 11: Select an Installation Type

Step 1: Start the Installation Process

Before you start the Predict installation, ensure that your system meets the requirements outlined in the section Installation Prerequisites.

Note:

If this is not a first-time installation of Predict, you are recommended to back-up your current Predict files. In addition, you are recommended to save any previously modified files.

When the initial welcoming screen is displayed, click Next to proceed.

Step 2: Accept the License Agreement

In this screen, the license agreement is displayed. You must accept it to proceed with the installation.

Step 3: Specify the Location of the License File

In this screen, you can specify the directory of the license file.

By default, **a:\prd42.xml** is displayed. You can enter a different path or use the Browse button to change the path to your license file.

Click Next to proceed.

Step 4: Confirm System Requirements

In this screen, the system requirements are displayed.

Click Next to proceed.

Step 5: Enter Customer Information

In this screen, enter your customer information. The first line should contain your user name, the second line the name of your organization.

Decide whether you want Predict to be installed for anyone using the system on which you are currently installing Predict (default setting) or just for yourself.

Click Next to proceed.

Step 6: Select the Destination Folder

In this screen, you can select the destination folder where you want Predict to be installed.

The default path is **C:\Program Files\Software AG\Predict 4.2.1.**

You can change this path by clicking on the Browse button.

Click Next to proceed.

Step 7: Select a Program Folder

In this screen, you can select a program folder where program icons are added.

The default name for the program folder is **Software AG Predict 4.2.1.**

You can type in a new name or select a program folder from the list of existing program folders.

Click Next to proceed.

Step 8: Review Settings Before Copying Files

In this screen, the system information gathered is displayed.

Click Back if you want to change any of the settings displayed.

Click Next to start copying files.

Step 9: Specify Your Natural Version

In this screen, you can specify your Natural version.

Click Next to proceed.

Note:

Predict Version 4.2.1 requires at least Natural Version 5.1.1.

Step 10: Specify Your Adabas Version

In this screen, you can specify your Adabas version.

Click Next to proceed.

Note:

Predict Version 4.2.1 requires at least Adabas Version 3.1.

Step 11: Select an Installation Type

In this screen, you can select the installation method.

Choose New for a first-time installation.

Choose Inplace conversion if you want to upgrade from an existing Predict 4.x.

Click Next to proceed.

First-Time Installation

Use this method if you are installing Predict for the first time or in an environment where Predict is not yet installed. See the following list for an overview of the necessary steps:

- Step 12: Select Postinstallation Steps
- Step 13: Select the Natural Parameter Module
- Step 14: Review the FNAT Settings
- Step 15: Review the FUSER Settings
- Step 16: Specify the FNR and DBID for the Main FDIC File
- Step 17: Specify the FNR and DBID for the Coordinator FDIC File
- Step 18: Enter Parameter Module Name
- Step 19: Load Predict Modules into Natural
- Step 20: View the Readme File
- Step 21: Define the Predict Libraries to Natural Security Manually
- Step 22: Define the Coordinator FDIC in the New SYSDIC Manually
- Step 23: Load the Predict Description of the Predict System File
- Step 24: Load the Predict Example Data

Step 12: Select Postinstallation Steps

In this screen, you can specify which steps are performed during postinstallation.

You can specify that you want the Predict modules to be loaded into Natural or that the Predict System File shall be created. You can also specify both of the above options.

Note:

You are recommended to leave all items checked.

Click Next to proceed.

Step 13: Select the Natural Parameter Module

In this screen, you can select the Natural Parameter Module. The information you provide in this screen, is used as input for the system environment.

Choose a module from the list.

Click Next to proceed.

Step 14: Review the FNAT Settings

In this screen, you can review and/or change the file number (FNR) and database ID (DBID) of your FNAT system file.

Click Next to proceed.

Step 15: Review the FUSER Settings

In this screen, you can review and/or change the file number (FNR) and database ID (DBID) of your FUSER system file.

Click Next to proceed.

Step 16: Specify the FNR and DBID for the Main FDIC File

In this screen, you can enter the file number (FNR) and database ID (DBID) for your Main FDIC system file.

You can either choose an existing FNR/DBID or, if you want to create a new Main FDIC file, enter an unused file number.

Note:

If an FDIC is already assigned in the NATPARM module you selected in Step 13, its FNR and DBID are displayed by default.

Click Next to proceed.

Step 17: Specify the FNR and DBID for the Coordinator FDIC File

In this screen, you can enter the file number (FNR) and database ID (DBID) for your Coordinator FDIC system file.

You can either choose an existing FNR/DBID or, if you want to create a new Coordinator FDIC file, enter an unused file number.

Click Next to proceed.

Step 18: Enter Parameter Module Name

In this screen, you can specify the name of the new parameter module. By default, PRDPARM is displayed. The name is limited to a maximum of 8 characters.

Click Next to proceed.

Step 19: Load Predict Modules into Natural

In this screen, the Predict modules are loaded into Natural. The progress of the load process is indicated by a bar with a percentage scale.

Wait for the process to finish, then click Next to proceed.

Step 20: View the Readme File

In this screen, you can specify whether you want to view the Readme file. By default, the confirmation box is checked. Uncheck the box if you do not want to view the Readme file.

Click Next to proceed.

Step 21: Define the Predict Libraries to Natural Security Manually

This step is optional.

This step must be performed manually by starting Natural with PARM=PRDPARM.

If you invoke Natural for the first time, the message "Default records have been added" will be displayed. Press the return key to proceed.

If Natural Security is installed, define the following libraries to Natural Security:

SYSDIC, SYSDICBE, SYSDICCO, SYSDICH and SYSDICMA.

Step 22: Define the Coordinator FDIC in the New SYSDIC Manually

This step must be performed manually by starting Natural with PARM=PRDPARM.

To set up your environment so you can use the Coordinator, start a Predict 4.2 online session (using the newly installed FDIC file) and perform the following:

- Log on to the library SYSDIC
- Call the Function Main Menu by entering MENU at the NEXT prompt
- Call the function Defaults > Coordinator Defaults
- Specify the parameters Coordinator FDIC DBID/FNR with the file number and database ID of the Coordinator FDIC added in Step 17.

Note:

If you are using a standard parameter file, the first two steps of this procedure are performed automatically when you start Predict.

Step 23: Load the Predict Description of the Predict System File

This step is optional.

To load the Predict description of the Predict system file, assign the file PRD421.DAT to Work File 1 in your parameter module PRDPARM. The file PRD421.DAT can be found in:

<Your Path>\PRD421.DAT, where <Your Path> represents the path you selected in Step 6 of this installation routine.

Note:

You can assign PRD421.DAT to Work File 1 directly in your parameter module PRDPARM. Alternatively, assign the variable *WRKF1* to Work File 1 in your parameter module and assign PRD421.DAT to *WRKF1*.

To do so, use system variables in your Windows environment:

- From the Windows taskbar choose Settings > Control Panel > System > Environment.
- Enter a variable name and value. The value in this specific case is <Your Path>\PRD421.DAT.

Start Natural with PARM=PRDPARM and enter the following commands:

- LOGON SYSDICBE
- MENU
- LOAD OBJECTTYPE ALL,REPLACE=Y,ADA=N

If a previous import operation with the Coordinator terminated abnormally for any reason, the Coordinator FDIC is locked and a corresponding message is returned. Enter the following commands to clear the Coordinator FDIC:

- LOGON SYSDIC
- MENU
- SPECIAL REFRESH

Note:

You can execute this step in batch mode also.

Step 24: Load the Predict Example Data

This step is optional.

To load the Predict example data, assign the file PRD421.DEM to Work File 1 in your parameter module PRDPARM. The file PRD421.DEM can be found in:

<Your Path>\PRD421.DEM, where <Your Path> represents the path you selected in Step 6 of this installation routine.

Note:

You can assign PRD421.DEM to Work File 1 directly in your parameter module PRDPARM. Alternatively, assign the variable *WRKF1* to Work File 1 in your parameter module and assign PRD421.DEM to *WRKF1*.

To do so, use system variables in your Windows environment:

- From the Windows taskbar choose Settings > Control Panel > System > Environment.
- Enter a variable name and value. The value in this specific case is <Your Path>\PRD421.DEM.

Start Natural with PARM=PRDPARM and enter the following commands:

- LOGON SYSDICBE
- MENU
- LOAD OBJECTTYPE ALL,REPLACE=Y,ADA=N

If a previous import operation with the Coordinator terminated abnormally for any reason, the Coordinator FDIC is locked and a corresponding message is returned. Enter the following commands to clear the Coordinator FDIC:

- LOGON SYSDIC
- MENU
- SPECIAL REFRESH

Note:

You can execute this step in batch mode also.

Your first-time installation is now complete.

Upgrade Installation - Inplace Conversion Method

Use this method if you want to upgrade from an existing Predict 4.x. See the following list for an overview of the necessary steps:

- Step 12: Select the Natural Parameter Module
- Step 13: Review the FNAT Settings
- Step 14: Review the FUSER Settings
- Step 15: Load Predict Modules into Natural
- Step 16: Define the Coordinator FDIC in the SYSDIC Manually
- Step 17: Specify the Conversion Defaults Manually
- Step 18: Define the Coordinator FDIC in the New SYSDIC Manually
- Step 19: Convert the Data on the Predict System File to Version 4.2 Format
- Step 20: Load the Predict Description of the Predict System File
- Step 21: Load the Predict Example Data

Step 12: Select the Natural Parameter Module

In this screen, you can select the Natural Parameter Module.

Choose a module from the list.

Click Next to proceed.

Step 13: Review the FNAT Settings

In this screen, you can review and/or change the file number (FNR) and database ID (DBID) of your FNAT system file.

Click Next to proceed.

Step 14: Review the FUSER Settings

In this screen, you can review and/or change the file number (FNR) and database ID (DBID) of your FUSER system file.

Click Next to proceed.

Step 15: Specify the DBID and FNR for the Main FDIC File

Specify in the Natural Configuration Utility the DBID and FNR of the Predict 4.1 FDIC System File, that you wish to use for Predict 4.2.

Step 16: Define the Coordinator FDIC in the SYSDIC Manually

This step must be performed manually by starting Natural with the parameter file you specified in Step 12.

To set up your environment so you can use the Coordinator, start a Predict 4.2 online session (with the FDIC file used for Predict 4.1) and perform the following:

- Log on to the library SYSDIC
- Call the Function Main Menu by entering MENU at the NEXT prompt
- Call the function Defaults > Coordinator Defaults
- Specify the parameters Coordinator FDIC DBID/FNR with the file number and database ID of the Coordinator FDIC used for Predict 4.1.

Step 17: Specify the Conversion Defaults Manually

This step must be performed manually by starting Natural with the parameter file you used in a previous Predict version.

Note:

Make sure that the corresponding FDIC and Coordinator FDIC assignment in your parameter module contains valid values.

To perform the data conversion enter:

- LOGON SYSDICCO
- MENU
- Select the function "Conversion defaults"

Conversion defaults are used to specify new object-type, association or retrieval-model names/codes for user-defined object types, associations or retrieval models defined in earlier versions of Predict if the old names and codes are now reserved.

The following object type, association and retrieval model names/codes are reserved in Predict Version 4.2:

| Reserved Object Type | |
|----------------------|-------|
| Names | Codes |
| TRIGGER | TR |
| VISTA-DA | |
| VISTA-FI | |

| Reserved Retrieval Model | |
|--------------------------|-------------|
| Model Name | Object Type |
| AP | SY |

| Reserved Association | | |
|----------------------|-------------|--------------|
| Object Type | Active Code | Passive Code |
| (FI->TR) | TR | FI |
| (PR->FI) | IN | IP |
| (PR->FI) | RE | RS |
| (SY->SY) | CS | CS |
| (SY->PR) | CP | CP |
| (SY->VE) | CV | CV |
| (SY->FI) | CF | CF |
| (SY->SY) | LI | LI |
| (PR->PR) | MS | MS |

Example

In Predict Version 4.1 you defined a user-defined object type with the object-type name Trigger and Code TI. In Predict Version 4.2, Trigger is the name of a predefined object type and is not permitted as a user-defined object type.

If you call the function Conversion defaults, the following screen appears:

| | | |
|------------------|---------------------------------|---------------------------|
| 13:41:46 | ***** P R E D I C T 4.2.1 ***** | 2002-07-31 |
| | - Conversion Defaults - | |
| | | Added 2002-07-31 at 16:03 |
| | | by GER |
| Object type code | Object type name | Retrieval model |
| | TRIGGER | |

The function lists all user-defined object types which are in conflict with the new version. Because the code TI is not reserved, this does not appear in the list and does not need to be changed. You do, however, have to change the object-type name Trigger before you can convert your data from Predict Version 4.1. Enter under Object type name a new name (which is not reserved) for your user-defined object type and press ENTER.

If no reserved object type names or codes and retrieval model names or codes have been defined in your previous Predict version, press ENTER.

Step 18: Define the Coordinator FDIC in the New SYSDIC Manually

This step must be performed manually by starting Natural with PARM=PRDPARM.

To set up your environment so you can use the Coordinator, start a Predict 4.2 online session (using the newly installed FDIC file) and perform the following:

- Log on to the library SYSDIC
- Call the Function Main Menu by entering MENU at the NEXT prompt
- Call the function Defaults > Coordinator Defaults
- Specify the parameters Coordinator FDIC DBID/FNR with the file number and database ID of the Coordinator FDIC.

Note:

If you are using a standard parameter file, the first two steps of this procedure are performed automatically when you start Predict.

Step 19: Convert the Data on the Predict System File to Version 4.2 Format

This step must be performed manually by starting Natural with PARM=PRDPARM.

This step converts Predict Version 4.1 data to Version 4.2 format. If the data on your Predict system file already is in Version 4.2 format, a corresponding message is returned.

To set up your environment so you can use the Coordinator, start a Predict 4.2 online session (using the newly installed FDIC file) and perform the following:

- Log on to the library SYSDICCO
- Call the Function Main Menu by entering MENU at the NEXT prompt.
- In the Predict Conversion Utility call the function C > Version 4.1 data

```
LOGON SYSDICCO
MENU
CONVERT VERSION42
```

Note:

You can execute this step in batch mode also.

Now the data is in Version 4.2 format. You are recommended to save your Predict system file in Version 4.2 format before proceeding with the steps below.

Step 20: Load the Predict Description of the Predict System File

This step is optional.

For further details see Step 23 in the section **First-Time Installation**.

Step 21: Load the Predict Example Data

This step is optional.

For further details see Step 24 in the section **First-Time Installation**.

Your upgrade installation is now complete.

Preparing your Natural/Adabas Environment for Working with Predict

After you have successfully installed Predict, the following parameters must be set before you can start working with Predict.

Natural Parameters

Natural parameters can be changed with the Natural for Windows utility NATPARM. See the **Natural for Windows Operations documentation** for more information.

| | |
|-------------------|--|
| MADIO | Must be set to 0. |
| MAXCL | Must be set to 0. |
| FDIC, FNAT, FUSER | Enter the numbers of the current Predict and Natural system files. |
| OPRB | OFF. |
| WORK | Work files 1, 2, 3 and 5 must be specified in DEFAULT format for every Predict user. This can be done by using Windows environment variables as work file names. Set different values for the environment variables for different users. |

Adabas Parameters

The following Adabas parameters must be set:

| | |
|---------|---|
| LAB | Must be at least 200,000. |
| LP | Must be at least 200. |
| LS | Must be at least 200,000. |
| LBP | Must be at least 4,000,000. |
| LWP | Must be at least 1,000,000. |
| MGC | Must be at least 50. |
| NC | Must be at least 200. |
| NH | Must be at least 10,000. |
| NISNHQ | Must be at least 1,000. |
| NT | Must be at least 2. |
| NU | Must be at least 200. |
| OPTIONS | The option TRUNCATION must be set in the OPTIONS parameter. |

Installation Log

If you should encounter any problem during the installation procedure, consult the log files which are written to <Your Path>, where <Your Path> represents the directory you selected as your installation directory.

See Step 6 in the section **Setup and Installation of Predict on Windows** for information on the default installation directory.

Applying Service Packs or Subsequent System Maintenance Levels

When migrating from Predict Version 4.2.1 to Predict Version 4.2.n ($n > 1$), please observe the information below. If you have already installed Predict Version 4.2.1 in your environment, no conversion of your FDIC file is necessary.

Perform the following steps:

Step 1: Save the user exit routines, other programs delivered in source form, and help texts if you modified them

Step 2: Start the installation process with setup.exe.

In the initial maintenance screen choose Update.

Click Next to proceed.

Step 3: Select the INPL dataset for update

In this screen, you can choose an INPL dataset for update.

Note:

This dataset can either represent a summary update or a system maintenance level.

Important:

Set the dataset format to Portable.

Click Next to proceed.

Step 4: Select a Natural parameter module

In this screen, you can specify an existing Natural parameter module which will be used as template for a new Predict parameter module.

Select PRDPARM from the selection box if you want to use the NATPARM module without changing FNAT/FUSER settings.

Click Next to proceed.

Note:

You are recommended to use the same parameter module that has been used during the initial installation of Predict 4.2.

Click Next to proceed.

Step 5: Review the FNAT Settings

Step 6: Review the FUSER Settings

Step 7: Load Predict modules into Natural

In this screen, the Predict modules are loaded into Natural. The progress of the load process is indicated by a bar with a percentage scale.

Wait for the process to finish, then click Next to proceed.

Step 8: Restore the objects you saved in Step 1 of this description.